Appl. No. 10/796,402 Amdt. sent February 24, 2005 Reply to Office Action of November 29, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

(Canceled) 1-4.

1	5. (Currently amended): A circuit comprising:		
2	a switch configured to couple a target circuit with a source of power;		
3	a first detector configured to detect power provided by the source of power, the		
4	first detector operatively coupled with the switch, wherein the switch closes responsive to the		
5	first detector; and		
6	a second detector configured to detect noise in the power, the second detector		
7	operatively coupled to the switch, wherein a conductivity of the switch varies responsive to the		
8	second detector[.];		
9	a positive terminal; and		
10	a negative terminal,		
11	wherein the switch is a transistor device having a gate, a source, and a drain,		
12	wherein the second detector comprises:		
13	a bias voltage source;		
14	an operational amplifier having:		
15	an inverting input coupled with the positive terminal and coupled with the		
16	bias voltage source;		
17	a non-inverting input coupled with a negative terminal; and		
18	an output coupled to the gate of the switch,		
19	wherein the bias voltage source is coupled with the first detector.		
1	(Original). The singuit of claim 5 when in the second detector counled		
1	6. (Original): The circuit of claim 5 wherein the second detector couples		
2	between the source of power source and a gate of the switch.		

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- 7. (Canceled)
- 1 8. (Original): The circuit of claim 7 wherein the output of the operational 2 amplifier couples with the first detector.
 - 9. (Canceled)

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- 1 10. (Currently amended): The circuit of claim 9-5 wherein the bias voltage 2 source is a voltage divider.
- 1 11. (Previously presented): A circuit for coupling a power source to an 2 electronic device comprising:

first circuit means for detecting a connection event wherein a connection is made between a device and a power source, the first circuit means configured to be selectively coupled to and decoupled from the power source;

second circuit means, responsive to the first circuit means, for coupling power from the power source to the electronic device so that power is applied to the electronic device in a gradual manner;

third circuit means for detecting an overcurrent event wherein the electronic device draws current from the power source exceeding a predetermined level of current; and fourth circuit means for reducing the amount of power that is applied to the electronic device in response to the third means.

- 12. (Previously presented): The circuit of claim 11 further including fifth circuit means for producing a signal indicative of an occurrence of the overcurrent event.
- 13. (Previously presented): The circuit of claim 11 further including a first connection terminal and a second power connection terminal, the power connection terminals suitable for connection to the power source, the third circuit means operable to detect an overcurrent event by monitoring electrical activity on only one of the first and second connection terminals.

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device.

1	14. (Previously presented): The circuit of claim 11 further including fifth			
2	circuit means for detecting electrical noise in the power, the second circuit means further being			
3	responsive to the fifth circuit means by varying the amount of power that is applied to the			
4	electronic device.			
1	15. (Previously presented): The circuit of claim 11 wherein the fourth circuit			
2	means is effective for decoupling the power supply from the electronic device.			
1	16. (Previously presented): A circuit for coupling a power source to a device			
2	comprising:			
3	first circuit means for detecting a connection event wherein a connection is made			
4	between a device and a power source, the first circuit means configured to be selectively coupled			
5	to and decoupled from the power source;			
6	second circuit means, responsive to the first circuit means, for coupling power			
7	from the power source to the device, the second circuit means operable to vary the amount of			
8	power that is applied to the device;			
9	third circuit means for detecting a change in an electrical parameter of the second			
10	circuit means indicative of a disconnection between the circuit and the power source;			
11	fourth circuit means for decoupling the power source from the device in response			
12	to the third means.			
1	17. (Previously presented): The method of claim 16 further including fifth			
2	circuit means for producing a signal indicative of an occurrence of the disconnection between the			
3	circuit and the power source.			
1	18. (Previously presented): The circuit of claim 16 further including fifth			
2	circuit means for detecting electrical noise in the power source, the second circuit means further			
3	being responsive to the fifth circuit means by varying the amount of power that is applied to the			

1	1 19. (Previously presented): A	circuit for coupling a power source to a device		
2	2 comprising:			
3	first circuit means for detecting a c	onnection event wherein a connection is made		
4	between a device and a power source, the first circuit means configured to be selectively coupled			
5	to and decoupled from the power source;			
6	second circuit means, responsive to the first circuit means, for providing a varying			
7	amount of power from the power source to the device;			
8	third circuit means for detecting when the device draws current from the power			
9	source exceeding a predetermined level of current;			
10	fourth circuit means for decoupling the power source from the device in response			
11	to the third means;			
12	fifth circuit means for detecting a change in an electrical parameter of the second			
13	circuit means indicative of a disconnection between the circuit and the power source; and			
14	sixth circuit means for decoupling the power source from the device in response			
15	to the fifth means.			
1	1 20. (Previously presented): Th	e circuit of claim 19 further including seventh		
2	circuit means for detecting electrical noise in the power, the second circuit means further being			
3	responsive to the seventh circuit means by varying	responsive to the seventh circuit means by varying the amount of power that is applied to the		
4	4 device.			